

APPARATUS FOR GENERATING A TEMPERATURE  
GRADIENT AND METHODS FOR USING THE GRADIENT  
TO CHARACTERIZE MOLECULAR INTERACTIONS

ABSTRACT OF THE DISCLOSURE

A novel apparatus for generating temperature gradients is described. The apparatus includes a semiconductive wafer and electrical connectors attached to, preferably, one of the edges of the wafer. Methods for transferring the temperature gradients to strata are described. The temperature gradients on the strata can be used for analyses of molecules, particularly biological macromolecules. The present invention also includes improved methods for determining the thermal stability of binding complexes.